Introduction to Selected Operations

Non-Modelling

CHANGE-T

Used to Change the Time Step of a Time Series

- Method depends on Datatype (as with RRS)
- INST
 - ► Increasing pick off
 - ► Decreasing linear interpolation
- MEAN
 - ► Increasing compute average
 - ► Decreasing each value set to same value as initial
- ACCM
 - ► Increasing add
 - ► Decreasing divide
- MEAN -> INST

MERGE-TS

Allows you to fill in missing data by merging time series or to switch time series

- You can merge two time series so that data from the secondary time series fill in missing data in the primary time series.
- You can switch between two precipitation or instantaneous discharge time series.
 - ▶ Use the SWITCH-TS mod to select the preferred time series.

ADJUST-Q

Used to Integrate the Observations and the Simulations

ADJUST-Q blends the observed data and the simulations to create and adjusted time series, QINE.

Can use Instantaneous or Mean data.

Where there are observations, the adjusted time series equals the simulation.

Where there are no observations, the difference (or ratio) between the observed and simulated is interpolated or extrapolated.

FFG

Introduction to Flash Flood Guidance

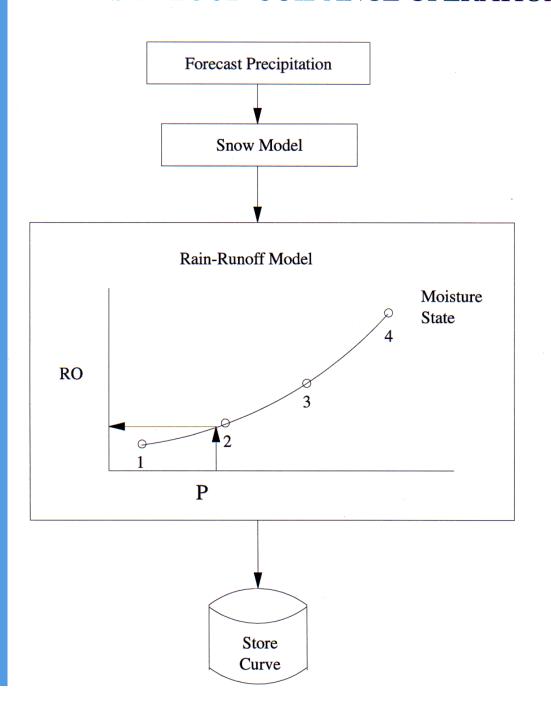
- Flash Flood Guidance is the number of inches of rain required to bring the river up to bankfull from the current conditions.
- Threshold Runoff is the depth of runoff (inches) equivalent to the bankfull flow (approximately 2 year return flow?).
- Threshold Runoff is a static parameter computed with ThreshR.

FFG

The Flash Flood Operation in OFS

- FFG operation computes Rainfall/Runoff curves that capture the relationship between Rainfall and Runoff for the current conditions on a basin.
- Iterates to find the precipitation for 0.1 and 2.5 inches of runoff.
- Computes curves for 1, 3, 6 12, and 24 hour durations.
- These curves are passed to the FFG system which uses them to determine how much rain is needed to create the Threshold Runoff.
- Be careful of your OFS segment and AREA definitions, as they may be used in the FFG system.

FLASH FLOOD GUIDANCE OPERATION



FFG System

Computing the Guidance

